

## E - Cycling

### N20110008523

Recycling Flight Hardware Components and Systems to Reduce Next Generation Research Costs.

National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center 2011, 13p

#### Related Categories/Subcategories

84A (Astronautics)

94A (Production Planning & Process Controls)

**Keywords:** Cost reduction, Recycling, Research vehicles

### PB2011110149

Information Model for Disassembly for Reuse, Recycle, and Remanufacturing.

National Inst. of Standards and Technology (MEL), Gaithersburg, MD.

2011, 79p

#### Related Categories/Subcategories

62 (Computers, Control & Information Theory)

71 (Materials Sciences)

94A (Production Planning & Process Controls)

68 (Environmental Pollution & Control)

**Keywords:** Disassembly, Manufacturing, Recycled materials.

### PB2015103728

Health Hazard Evaluation Report: A Pilot Assessment of Occupational Health Hazards in the U.S. Electronic Scrap Recycling Industry.

National Inst. for Occupational Safety and Health, Washington, DC.

2014, 26p

#### Related Categories/Subcategories

57U Public Health & Industrial Medicine

68C Solid Wastes Pollution & Control

68G Environmental Health & Safety

62B Computer Software

**Keywords:** Recycling, E-waste, Health Hazard Evaluation Program.

### PB2014108832

Health Hazard Evaluation Report: HETA-2012-0100-3217, July 2014. Evaluation of Occupational Exposure at an Electronic Scrap Recycling Facility.

National Inst. for Occupational Safety and Health, Washington, DC.

2014, 54p

#### Related Categories/Subcategories

68G - Environmental Health & Safety

57U - Public Health & Industrial Medicine

94D - Job Environment

94G - Manufacturing Processes & Materials Handling

**Keywords:** Electronic scrap recycling, Electronic components, Hazardous materials.



### PB2015102794

Health Hazard Evaluation Report: HETA-2013-0067-3228, January 2015. Metal Exposures in an Electronic Scrap Recycling Facility.

National Inst. for Occupational Safety and Health, Washington, DC.

2015, 38p

#### Related Categories/Subcategories

68G - Environmental Health & Safety

57U - Public Health & Industrial Medicine

94D - Job Environment

94G - Manufacturing Processes & Materials Handling

**Keywords:** Recycling, Electronic components, Personal protective equipment.

### ADA532293

Integration of Demilitarization Contractors and Recyclers - Collateral Benefits of On-Site Training of Recyclers.

Gradient Technology, Elk River, MN.

2010, 45p

#### Related Categories/Subcategories

79A (Ammunition, Explosives, & Pyrotechnics)

92A (Job Training & Career Development)

**Keywords:** Recycled materials, Recovery, Explosives, Reclamation.

## Newsletter

### National Technical Reports Library

**Purpose:** To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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**PB2012104140**

**National Strategy for Electronics Stewardship.**

Council on Environmental Quality, Washington, DC.;  
General Services Administration, Washington, DC.;  
Environmental Protection Agency, Washington, DC.  
2011, 34p

**Related Categories/Subcategories**

49 (Electrotechnology)

91A (Environmental Management & Planning)

68 (Environmental Pollution & Control)

43F (Environment)

Keywords: Electronics, E-Waste, National strategies,  
Used electronics

**PB2014105270**

**Implementation Handbook for the Strategic Sustainability Performance Plan.**

Department of Commerce, Washington, DC.;  
Department of Energy, Washington, DC.  
2013, 74p

**Related Categories/Subcategories**

70B (Management Practice)

70F (Public Administration & Government)

96 (Business & Economics)

Keywords: Electronics stewardship, Strategic  
planning, Pollution prevention

**PB2014107396**

**Remanufacturing, Repurposing, and Recycling of Post-Vehicle-Application Lithium-Ion Batteries.**

Mineta Transportation Inst., San Jose, CA. Coll. of  
Business.; Grand Valley State Univ., Allendale, MI.;  
Department of Transportation, Washington, DC.  
Research & Innovative 2014

2014, 74p

**Related Categories/Subcategories**

97M - Batteries & Components

97R - Environmental Studies

85H - Road Transportation

68C - Solid Wastes Pollution & Control

Keywords: Storage batteries, Recycling,  
Repurposing

**ADA565674**

**Wisdom from the Field: Ins-and-Outs of Developing a Top Recycling Program.**

Naval Facilities Engineering Command, San Diego,  
CA.

2011, 16p

**Related Categories/Subcategories**

97M (Batteries & Components)

74 (Military Sciences)

68C (Solid Wastes Pollution & Control)

Keywords: Electric batteries, Recycled materials,  
Collection.

**PB2012101343**

**Rare Earth Elements: End Use and Recyclability.**

Geological Survey, Reston, VA.

2011, 22p

USGS SIR-2011-5094

**Related Categories/Subcategories:**

68C (Solid Wastes Pollution & Control)

71N (Nonferrous Metals & Alloys)

96A (Domestic Commerce, Marketing, & Economics)

Keywords: Rare earth elements, Recycling,  
Alternative material use.

**PB2012108335**

**Solid Wastes in Washington State Nineteenth Annual Status Report.**

Washington State Dept. of Ecology, Olympia.

2010, 174p

**Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

43F (Environment)

91A (Environmental Management & Planning)

Keywords: Solid wastes, Waste management,  
Recycling

**PB2010113233**

**Electronic Waste: Considerations for Promoting Environmentally Sound Reuse and Recycling.**

Government Accountability Office, Washington, DC.

2010, 70p

**Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

49 (Electrotechnology)

71 (Materials Sciences)

41 (Manufacturing Technology)

94G (Manufacturing Processes & Materials  
Handling)

Keywords: Electronic equipment, Waste recycling,  
Materials recovery

**PB2011108421**

**Review of Federal Prison Industries' Electronic-Waste Recycling Program.**

Department of Justice, Washington, DC. Office of  
the Inspector General.

2010, 433p

**Related Categories/Subcategories**

91C (Fire Services, Law Enforcement, & Criminal  
Justice)

70 (Administration & Management)

68C (Solid Wastes Pollution & Control)

57U (Public Health & Industrial Medicine)

Keywords: Waste recycling, Electronic equipment,  
Hazardous metals, Correctional facilities

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**PB2011108422**

**Review of Federal Prison Industries Electronic Waste Recycling Program. Appendix - Volume I.**

Department of Justice, Washington, DC. Office of  
the Inspector General.

2010, 1008p

**Related Categories/Subcategories**

91C (Fire Services, Law Enforcement, & Criminal  
Justice)

70 (Administration & Management)

68C (Solid Wastes Pollution & Control)

57U (Public Health & Industrial Medicine)

Keywords: Correctional facilities, Electronic  
equipment, Waste recycling

**PB2012108242**

**Electronic Waste: Actions Needed to Provide Assurance That Used Federal Electronics Are Disposed of in an Environmentally Responsible Manner.**

Government Accountability Office, Washington,  
DC.

2012, 43p

**Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

91A (Environmental Management & Planning)

43F (Environment)

62A (Computer Hardware)

49 (Electrotechnology)

Keywords: Used federal electronics, Electronic  
devices, Computers, Materials recovery

**Key to Database Fields Used**

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- **NTIS Order Number**
- **Title**
- **Source**
- **Report Year, Page Count**
- **Report Number/ISBN13** (if available)
- **Related Categories/Sub-categories** (where the document is also indexed)
- **Keywords**

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## NTRL INCREASES ACCESS TO FEDERAL S&T REPORTS

NTIS has launched greater access to federally funded science & technology information and reports. Starting in October 2014, U.S. citizens have free access to all electronically-available documents in the NTIS collection.

Currently there are more than 850,000 documents digitized for free public access. For the first time, Individuals have the option to subscribe to the NTRL in order to benefit from the Premium features of the database, such as advanced search, more free downloads, and digitization-on-demand (NTRL Premium Institutional).

Please feel free to contact me if you have any questions.

**Greg Guthrie**, Program Manager  
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Save Favorite Documents	-	-	✓	✓ (Available when creating an account within the Institution)
Email Favorite Documents Per Session	-	-	✓	✓
<b>EXTERNAL SYSTEMS</b>				
EndNote	-	-	✓	✓
<b>DIGITAL-ON-DEMAND</b>				
User Requests	-	-	-	✓ (Mediated: Limit of 5 per week)
Administrator Tool	-	-	-	✓
<b>INSTITUTION ACCESS</b>				
IP Based	-	-	-	✓
Branded Site	-	-	-	✓
<b>REPORTING</b>				
Administrator Usage Statistics	-	-	-	✓
<b>TRIAL ACCESS</b>				
Public NTRL	-	-	-	



#### **PB2012114234**

Rare Earth Elements: A Review of Production, Processing, Recycling, and Associated Environmental Issues.

National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.

2012, 135p

#### **Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

71N (Nonferrous Metals & Alloys)

**Keywords:** Earth elements, Life-cycle stages, Alternative material use

#### **DE20121044470**

Techno-Economic Analysis of PEV Battery Second Use: Repurposed Battery Selling Price and Commercial and Industrial End-User Value.

National Renewable Energy Lab., Golden, CO.

2012, 13p

NREL/CP-5400-53799

#### **Related Categories/Subcategories:**

97M (Batteries & Components)

97O (Miscellaneous Energy Conversion & Storage)

85H (Road Transportation)

**Keywords:** Storage batteries, Energy storage systems, Materials recovery.

#### **PB2008113790**

Electronic Waste: EPA Needs to Better Control Harmful U.S. Exports through Stronger Enforcement and More Comprehensive Regulation. Government Accountability Office, Washington, DC.

2008, 67p

#### **Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

49E (Optoelectronic Devices & Systems)

92E (International Relations)

96C (International Commerce, Marketing, & Economics)

**Keywords:** Electronic equipment, Recycling, Environmental effects

#### **PB2009104556**

Responsible Recycling (R2) Practices For Use In Accredited Certification Programs for Electronics Recyclers.

Decisions and Agreements, LLC, Hotchkiss, CO.

2008, 15p

#### **Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

49 (Electrotechnology)

94G - Manufacturing Processes & Materials Handling

**Keywords:** Responsible recycling (R2), Electronic equipment, Solid waste management

#### **ADA568692**

Compact Fluorescent Lights, Mercury, and the Landfill.

Army Engineer School, Fort Leonard Wood, MO.

2009, 4p

#### **Related Categories/Subcategories**

89B (Architectural Design & Environmental Engineering)

68C (Solid Wastes Pollution & Control)

68G (Environmental Health & Safety)

**Keywords:** Waste recycling, Cfl(Compact fluorescent lights), Hazardous waste

#### **PB2010102291**

Managing Electronic Waste: Issues with Exporting E-Waste. CRS Report for Congress.

Congressional Research Service, Washington, DC.

2009, 15p

#### **Related Categories/Subcategories**

68 (Environmental Pollution & Control)

68C (Solid Wastes Pollution & Control)

49G (Resistive, Capacitive, & Inductive Components)

49E (Optoelectronic Devices & Systems)

49H (Semiconductor Devices)

**Keywords:** Electronic waste, Exporting e-waste, E-waste management, Recycling

#### **PB2006107748**

Resource Conservation Challenge: Progress Report 2005.

Environmental Protection Agency, Washington, DC.

Office of Solid Waste and Emergency Response.

2005, 36p

#### **Related Categories/Subcategories**

68 (Environmental Pollution & Control)

**Keywords:** Recycling, Electronics

#### **PB2006114722**

Recycling Technology Products: An Overview of E-Waste Policy Issues.

Department of Commerce, Washington, DC. Office of Technology Policy.

2006, 297p

#### **Related Categories/Subcategories**

70B (Management Practice)

70F (Public Administration & Government)

43F (Environment)

91A (Environmental Management & Planning)

**Keywords:** Electronic products, Recycling, Waste management

#### **PB2006100901**

Report on the Panel Session: Emerging Electronics Issues - How Can We Minimize the Health and Environmental Impacts of Electronics Recycling.

Environmental Protection Agency, Las Vegas, NV.

Office of Research and Development.

2005, 66p

#### **Related Categories/Subcategories**

57U (Public Health & Industrial Medicine)

44G (Environmental & Occupational Factors)

68C (Solid Wastes Pollution & Control)

49 (Electrotechnology)

71 (Materials Sciences)

**Keywords:** Electronics scrap, Recycling, Electronic equipment

#### **DOEET25420T1**

Life-Cycle Energy Analyses of Electric Vehicle Storage Batteries. Final Report.

Technical Information Center Oak Ridge Tennessee

1980, 291p

#### **Related Categories/Subcategories**

97M - Batteries & Components

97R - Environmental Studies

85H - Road Transportation

68C - Solid Wastes Pollution & Control

**Keywords:** Electric batteries, Life-cycle cost, Materials recovery

#### **PB2009113259**

Control Technology and Exposure Assessment for Electronic Recycling Operations Elkton Federal Correctional Institution, Elkton, Ohio.

National Inst. for Occupational Safety and Health, Cincinnati, OH. Div. of Applied Research and Technology.

2008, 71p

#### **Related Categories/Subcategories**

91C (Fire Services, Law Enforcement, & Criminal Justice)

70 (Administration & Management)

68C (Solid Wastes Pollution & Control)

57U (Public Health & Industrial Medicine)

**Keywords:** Electronic recycling operations, Federal Prison Industries facilities, Worker exposure

#### **PB2008113790**

Electronic Waste: EPA Needs to Better Control Harmful U.S. Exports through Stronger Enforcement and More Comprehensive Regulation. Government Accountability Office, Washington, DC.

2008, 67p

#### **Related Categories/Subcategories**

68C (Solid Wastes Pollution & Control)

49E (Optoelectronic Devices & Systems)

92E (International Relations)

96C (International Commerce, Marketing, & Economics)

**Keywords:** Electronic equipment, Recycling, Environmental health

#### **PB2006101144**

Technology Recycling: Achieving Consensus for Stakeholders. Roundtable Electronics Recycling. Held in Washington, DC. on September 21, 2004.

Department of Commerce, Washington, DC.

2004, 136p

#### **Related Categories/Subcategories**

68 (Environmental Pollution & Control)

68C (Solid Wastes Pollution & Control)

49 (Electrotechnology)

96 (Business & Economics)

**Keywords:** Electronic equipment, Recycling, Computers

#### **PB2004104879**

Recycling Computers and Electronic Equipment: Legislative and Regulatory Approaches for 'E-Waste'.

Congressional Research Service, Washington, DC. Resources, Science, and Industry Div.

2002, 28p

Related Categories/Subcategories

68C (Solid Wastes Pollution & Control)

**Keywords:** Computers, Electronic equipment, Recycling, Legislation.

# CENDI (Commerce, Energy, NASA, Defense Information Managers Group)

CENDI (Commerce, Energy, NASA, Defense Information Managers Group) is an interagency group of senior Scientific and Technical Information (STI) managers from 14 United States federal agencies.

CENDI traces its roots to the Committee on Scientific and Technical Information (COSATI) of the Federal Council on Science and Technology. COSATI was established in the early 1960s to coordinate the management of the results from the U.S. government's increasing commitment to scientific research and technology development. The scientific and technical information (STI) managers of the government's major research and development (R&D) agencies worked within COSATI to standardize guidelines for cataloging and indexing technical reports. COSATI ceased formal operations in the early 1970s.

To continue the cooperation begun under COSATI, managers of agency STI programs from Commerce (National Technical Information Service), Energy (Office of Scientific and Technical Information), NASA (HQ/STI Division), and Defense (Defense Technical Information Center) began meeting periodically to discuss common topics and stimulate more effective cooperation.

In 1985, a Memorandum of Understanding was signed by the four charter agencies and CENDI was established. From this small core of STI managers, CENDI has grown to its current membership, which represents the major science agencies, the national libraries, and agencies involved in the dissemination and long-term management of scientific and technical information.

## Public Access Plans of U.S. Federal Agencies

*Additional Public Access Plans will be posted as agencies release them.*

In a memo released by the Office of Science and Technology Policy (OSTP) on February 22, 2013, each Federal agency with over \$100 million in annual conduct of research and development expenditures was directed to develop a plan to support increased public access to the results of research funded by the Federal Government. This included any results published in peer-reviewed scholarly publications that are based on research that directly arises from Federal funds, as defined in relevant OMB circulars (e.g., A-21 and A-11).

The full memo can be viewed at <https://www2.icsu-wds.org/files/ostp-public-access-memo-2013.pdf>.

Some agencies not subject to the OSTP memo are voluntarily developing Public Access Plans and are included below.

## Available Plans

- **Agency for International Development (Oct. 1, 2014)**  
<http://blog.usaid.gov/2014/10/announcing-usaids-open-data-policy/>
- **Department of Agriculture (Nov. 7, 2014)**  
<http://www.usda.gov/documents/USDA-Public-Access-Implementation-Plan.pdf> / (PB2015102892)
- **Department of Commerce**
  - **National Institute of Standards and Technology (Apr. 3, 2015)**  
<http://www.nist.gov/data/upload/NIST-Plan-for-Public-Access.pdf> / (PB2015104387)
  - **National Oceanic and Atmospheric Administration (Feb. 2015)**  
[http://docs.lib.noaa.gov/noaa\\_documents/NOAA\\_Research\\_Council/NOAA\\_PARR\\_Plan\\_v5.04.pdf](http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf) / (PB2015102888)
- **Department of Defense (Feb. 2015)**  
[http://www.dtic.mil/dtic/pdf/DoD\\_PublicAccessPlan\\_Feb2015.pdf](http://www.dtic.mil/dtic/pdf/DoD_PublicAccessPlan_Feb2015.pdf)
- **Department of Energy (Jul. 24, 2014)**  
[http://energy.gov/sites/prod/files/2014/08/f18/DOE\\_Public\\_Access\\_Plan\\_FINAL.pdf](http://energy.gov/sites/prod/files/2014/08/f18/DOE_Public_Access_Plan_FINAL.pdf) / (PB2015101160)
- **Department of Health and Human Services**  
<http://www.hhs.gov/open/public-access/guiding-principles.html>
  - **Agency for Healthcare Research and Quality (Feb. 2015)**  
<http://www.ahrq.gov/funding/policies/publicaccess/index.html>
  - **Centers for Disease Control (Jan. 2015)**  
[http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015\\_508-Compliant.pdf](http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015_508-Compliant.pdf) / (PB2015102889)
  - **Food and Drug Administration (Feb. 27, 2015)**  
<http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf> / (PB2015102887)
  - **National Institutes of Health (Feb. 26, 2015)**  
<http://grants.nih.gov/grants/NIH-Public-Access-Plan.pdf> / (PB2015102891)
  - **Office of the Assistant Secretary for Preparedness and Response (Feb. 27, 2015)**  
<http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf> / (PB2015102888)
- **Department of the Interior**
  - **US Geological Survey (Feb. 19, 2015)**  
<http://www.usgs.gov/usgs-manual/im/IM-OSQI-2015-01.html>
- **National Aeronautics and Space Administration (Nov. 21, 2014)**  
[http://science.nasa.gov/media/medialibrary/2014/12/05/NASA\\_Plan\\_for\\_increasing\\_access\\_to\\_results\\_of\\_federally\\_funded\\_research.pdf](http://science.nasa.gov/media/medialibrary/2014/12/05/NASA_Plan_for_increasing_access_to_results_of_federally_funded_research.pdf)
- **National Science Foundation (Mar. 18, 2015)**  
<http://www.nsf.gov/pubs/2015/nsf15052/nsf15052.pdf> / (PB2015102890)
- **Veterans Administration (Feb. 1, 2015)**  
[http://www.research.va.gov/resources/policies/public\\_access.cfm](http://www.research.va.gov/resources/policies/public_access.cfm)

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## National Technical Information Service (NTIS) demonstrated both the Public Access National Technical Reports Library (NTRL) and the Premium Institutional NTRL at the 2015 Depository Library Council & Federal Depository Library Conference.

*Government Document Librarians from Federal Depository Libraries around the United States had an opportunity to review and evaluate the features of NTRL.*



Greg Guthrie, Information Specialist at the National Technical Information Service (NTIS) and Amanda Colvin, Program Planner at U.S. Government Publishing Office (GPO) discuss the National Technical Reports Library (NTRL) at the 2015 Depository Library Council and Federal Depository Library Conference, held October 19-21, in Arlington, Virginia.

## LEGACY DOCUMENTS

### FOR LEGACY DOCUMENTS (LD):

Legacy Documents are documents in the repository and haven't been digitized. Digitization-on-demand for these documents is available to NTRL Subscribers.

#### AD865672

Lessons Learned, Headquarters, 507th Transportation Group.  
1969, 14p  
Adjutant General's Office (Army), Washington, DC.

#### Related Categories/Subcategories

74G-Military Operations, Strategy, & Tactics  
**Keywords:** Army operations, Vietnam, Limited war, Transportation, Logistics, Military personnel.

#### AD234980

Floods Resulting from Suddenly Breached Dams, Conditions on Minimum Resistances, Hydraulic Model Hydraulic Model Investigation, Miscellaneous Paper no. 2-374; rept. no. 1.  
1960, 180p  
Army Engineer Waterways Experiment Station, Vicksburg, MS.

#### Related Categories/Subcategories

48B-Natural Resource Management,  
48G-Hydrology & Limnology,  
89D-Structural Analyses  
50B-Civil Engineering  
39B-Civil, Construction, Structural, & Building Engineering  
5F-Weather Modification.  
**Keywords:** Floods, Breached dams, Weather conditions, Hydraulic, Prototype.

#### AD877237

Investigation of Potassium Dinitrobenzofuroxan (KDNBF) to Provide Data Necessary for the Preparation of a Military Specification.  
1970, 76p  
Pica tinny Arsenal, Dover, NJ

#### Related Categories/Subcategories

79A-Ammunition, Explosives, & Pyrotechnics,  
99D-Basic & Synthetic Chemistry.  
**Keywords:** Explosives, Furoxanes, Specifications, Test methods, Impurities.

#### PB81202574

Coastal Development: Barrier Islands, Flood Insurance, and Policy, Proceedings of a Conference Held in Charleston, South Carolina on May 15, 1980.  
1980, 64p  
South Carolina Sea Grant Consortium, Charleston, SC.

#### Related Categories/Subcategories

48B-Natural Resource Management  
48G-Hydrology & Limnology  
89D-Structural Analyses  
50B-Civil Engineering  
39B-Civil, Construction, Structural, & Building Engineering  
5F-Weather Modification.  
**Keywords:** Floods, Barrier Islands, Coasts, Sediment transport, South Carolina, Sea Grant program.

#### AD880561

Aircraft Fuel Tank Inerting Program. Volume I. Data.  
1971.  
1971, 113p  
Air Research Mfg. Co., Los Angeles, CA.

#### Related Categories/Subcategories

51C-Aircraft  
94G-Manufacturing Processes & Materials Handling.  
**Keywords:** Fuel tanks, Fire safety, Gas generating systems, Jet bombers, Jet fighters, Liquefied gases, Nitrogen, Aviation fuels, Bleed systems, Heat sinks.

#### N7615190

The Deep Space Network.  
1975, 313p  
California Inst. of Tech., Pasadena. Jet Propulsion Lab.

#### Related Categories/Subcategories

84E-Space Launch Vehicles & Support Equipment,  
49E-Optoelectronic Devices & Systems,  
82C-Recording Devices.  
**Keywords:** Continuous wave radar, Deep space network, Electronic equipment tests, Data recording,



**PB2004104879**

## Recycling Computers and Electronic Equipment: Legislative and Regulatory Approaches for 'E-Waste

Congressional Research Service, Washington, DC. Resources, Science, and Industry Div.

Rapid growth in the use of computers and the incorporation of electronic features in a wide array of consumer products have been among the most important driving forces of the nations economy during the last decade; but they also pose major potential environmental problems.

In addition to producing better products, the improvements in technology have created growing volumes of obsolete products to be managed as waste. According to the National Safety Council, which undertook the first major effort to gather quantitative information on electronic product recycling, 55.4 million personal computers will become obsolete in the United States in 2002. At an average weight of 70 pounds, obsolete PCs weighing 3.878 billion pounds will be added to the supply of waste needing management in 2002 alone.

Management of these products as waste is of concern in part because of their volume, but more importantly because they contain large amounts of heavy metals and other toxic substances. This report provides background on the management of discarded computers, discusses some of the initiatives undertaken in the United States and abroad, and identifies options that Congress might consider if it were to address this issue.

## Major Subject Categories

### Category Codes\*/Title

### New for July Quantity\*\*

41 Manufacturing Technology .....	29
43 Problem Solving Information for State & Local Governments.....	114
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\* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/pdf/scopenotes.pdf>

\*\* Quantities represent each new report assigned on average to 3-5 categories.

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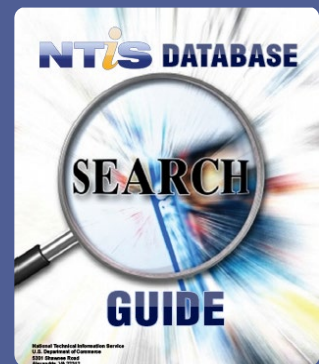
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NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to <http://www.ntis.gov/products/ntrl.aspx>.

## Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

NTIS Number	Category	Title
N20110008523	84	Recycling Flight Hardware Components and Systems to Reduce Next Generation Research Costs.
PB2011110149	62	Information Model for Disassembly for Reuse, Recycle, and Remanufacturing.
PB2015103728	57	Health Hazard Evaluation Report: A Pilot Assessment of Occupational Health Hazards in the U.S. Electronic Scrap Recycling Industry.
PB2014108832	68	Health Hazard Evaluation Report: HETA-2012-0100-3217, July 2014. Evaluation of Occupational Exposure at an Electronic Scrap Recycling Facility.
PB2015102794	68	Health Hazard Evaluation Report: HETA-2013-0067-3228, January 2015. Metal Exposures in an Electronic Scrap Recycling Facility.
PB2012104140	49	National Strategy for Electronics Stewardship.
ADA532293	79	Integration of Demilitarization Contractors and Recyclers - Collateral Benefits of On-Site Training of Recyclers.
PB2014105270	70	Implementation Handbook for the Strategic Sustainability Performance Plan.
PB2014107396	97	Remanufacturing, Repurposing, and Recycling of Post-Vehicle-Application Lithium-Ion Batteries.
ADA565674	97	Wisdom from the Field: Ins-and-Outs of Developing a Top Recycling Program.
PB2010113233	68	Electronic Waste: Considerations for Promoting Environmentally Sound Reuse and Recycling.
PB2011108421	91	Review of Federal Prison Industries' Electronic-Waste Recycling Program.
PB2011108422	91	Review of Federal Prison Industries Electronic Waste Recycling Program. Appendix - Volume I.
PB2012108242	68	Electronic Waste: Actions Needed to Provide Assurance That Used Federal Electronics Are Disposed of in an Environmentally Responsible Manner.
PB2012114234	68	Rare Earth Elements: A Review of Production, Processing, Recycling, and Associated Environmental Issues.
PB2012101343	68	Rare Earth Elements: End Use and Recyclability.
DE20121044470	97	Techno-Economic Analysis of PEV Battery Second Use: Repurposed Battery Selling Price and Commercial and Industrial End-User Value.
PB2012108335	68	Solid Wastes in Washington State Nineteenth Annual Status Report.
PB2008113790	68	Electronic Waste: EPA Needs to Better Control Harmful U.S. Exports through Stronger Enforcement and More Comprehensive Regulation.
PB2009104556	68	Responsible Recycling (R2) Practices For Use In Accredited Certification Programs for Electronics Recyclers.
ADA568692	89	Compact Fluorescent Lights, Mercury, and the Landfill.
PB2010102291	68	Managing Electronic Waste: Issues with Exporting E-Waste. CRS Report for Congress.
PB2006107748	68	Resource Conservation Challenge: Progress Report 2005.
PB2006114722	70	Recycling Technology Products: An Overview of E-Waste Policy Issues.
PB2006100901	57	Report on the Panel Session: Emerging Electronics Issues - How Can We Minimize the Health and Environmental Impacts of Electronics Recycling.
DOEET25420T1	97	Life-Cycle Energy Analyses of Electric Vehicle Storage Batteries. Final Report.
PB2009113259	91	Control Technology and Exposure Assessment for Electronic Recycling Operations Elkton Federal Correctional Institution, Elkton, Ohio.
PB2008113790	68	Electronic Waste: EPA Needs to Better Control Harmful U.S. Exports through Stronger Enforcement and More Comprehensive Regulation.
PB2006101144	68	Technology Recycling: Achieving Consensus for Stakeholders. Roundtable Electronics Recycling. Held in Washington, DC. on September 21, 2004.
PB2004104879	68	Recycling Computers and Electronic Equipment: Legislative and Regulatory Approaches for 'E-Waste'.